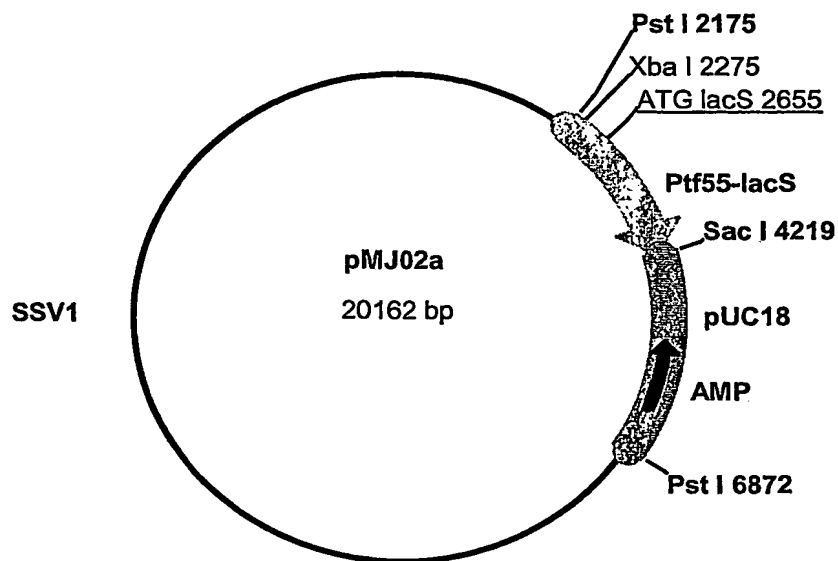


Figure 1

A



B

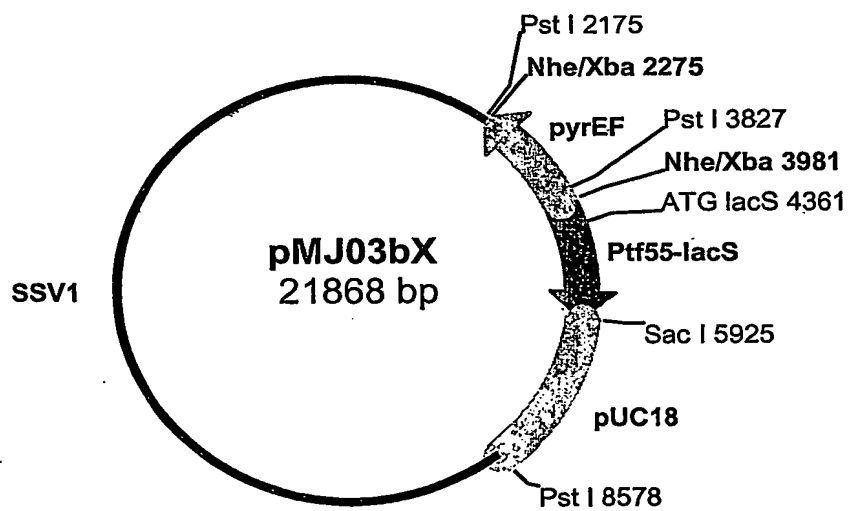


Figure 2

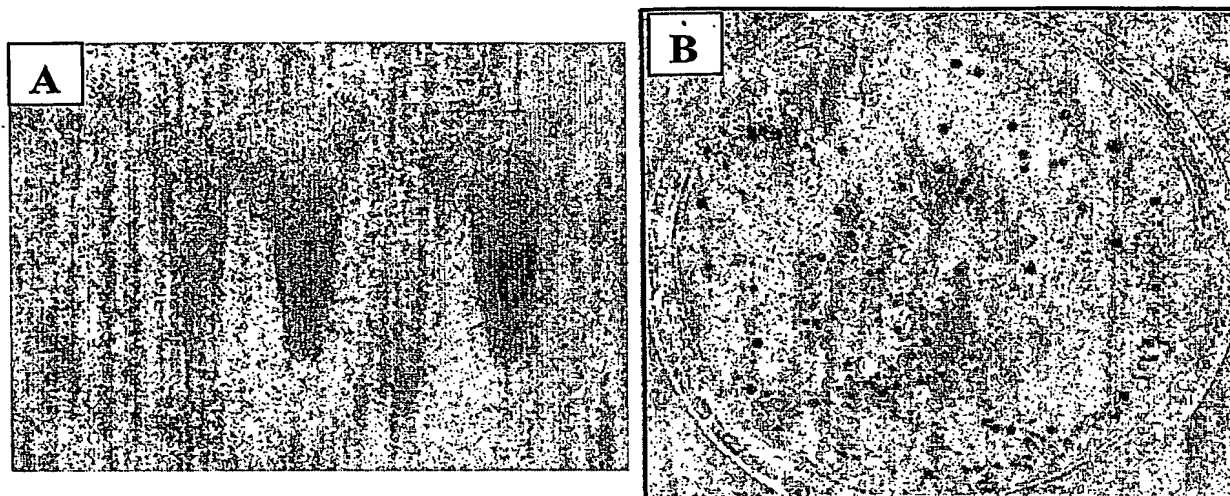


Figure 3

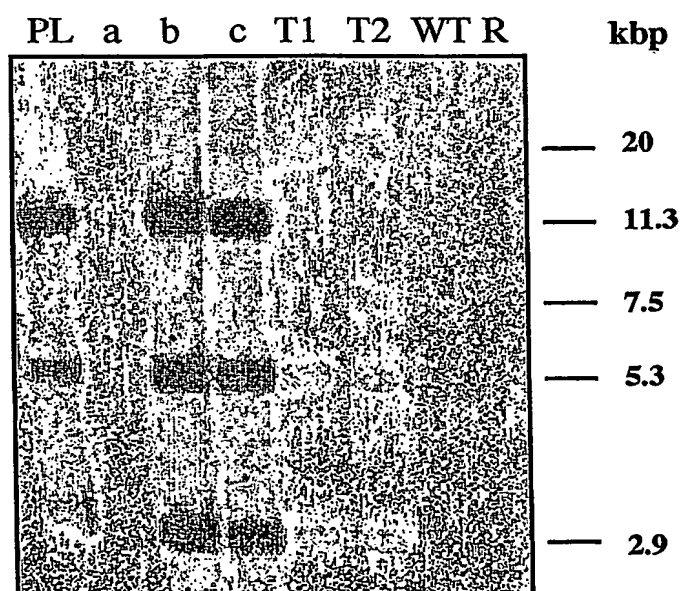


Figure 4

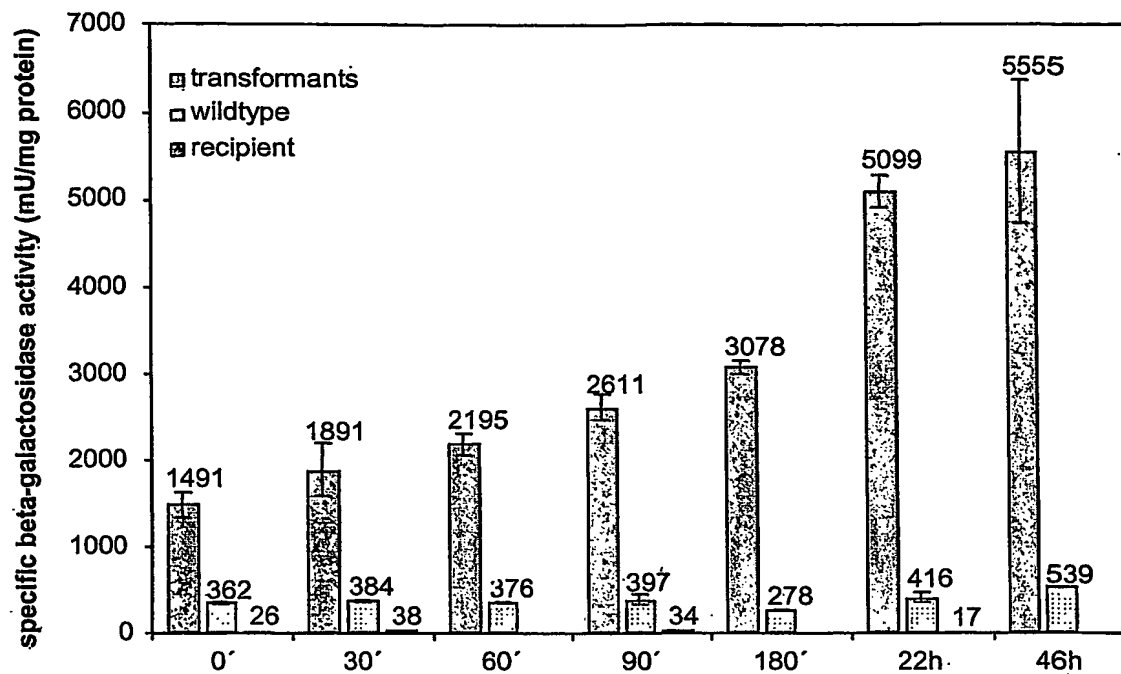
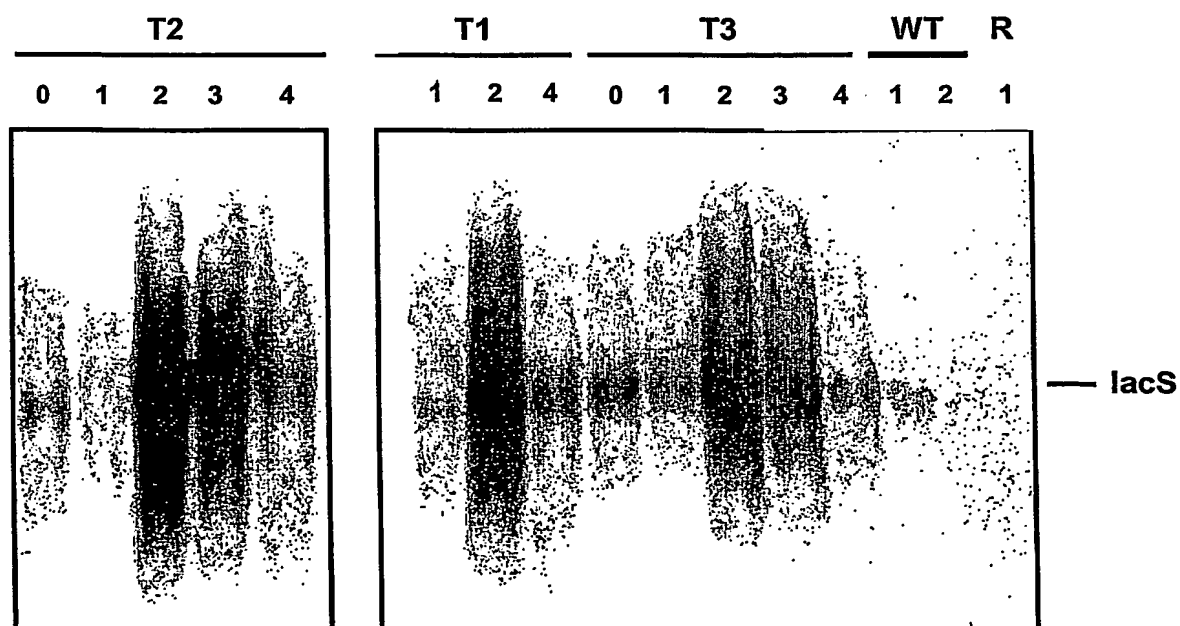


Figure 5



### Figure 6

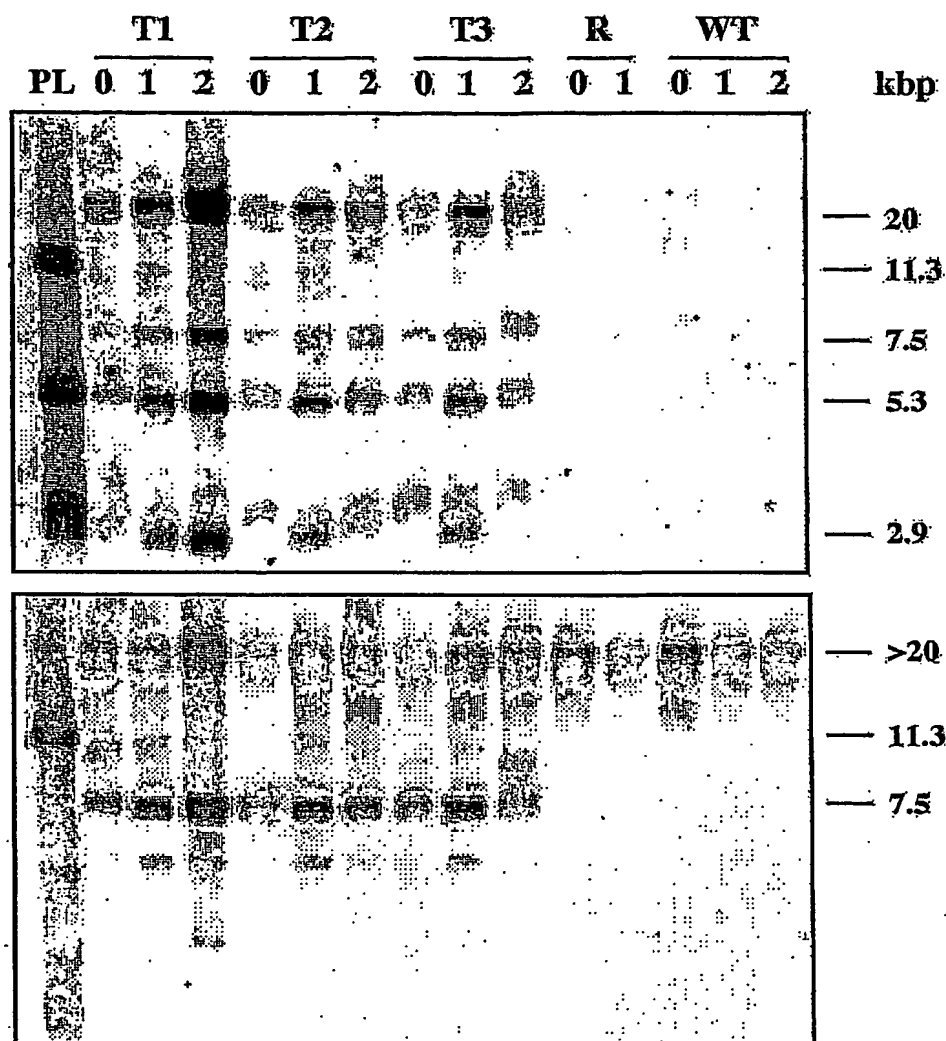


Figure 7a

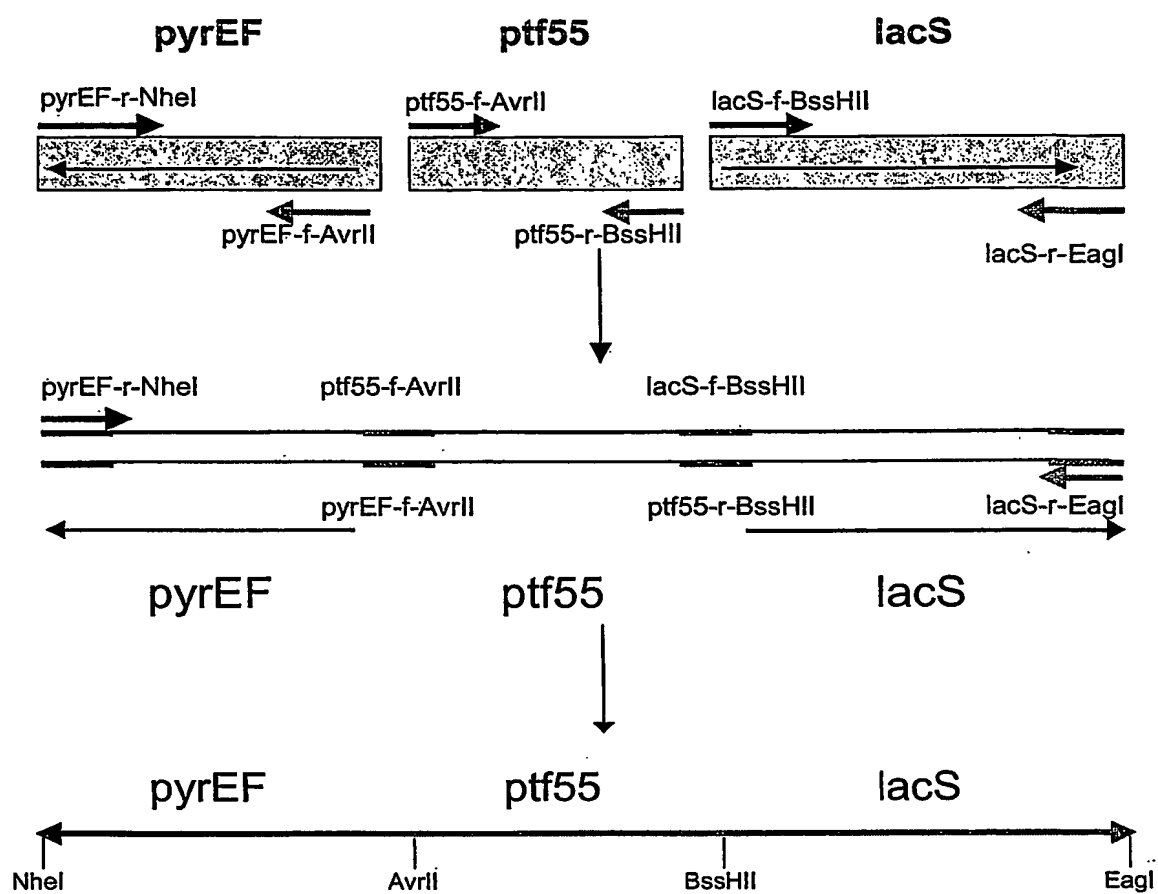
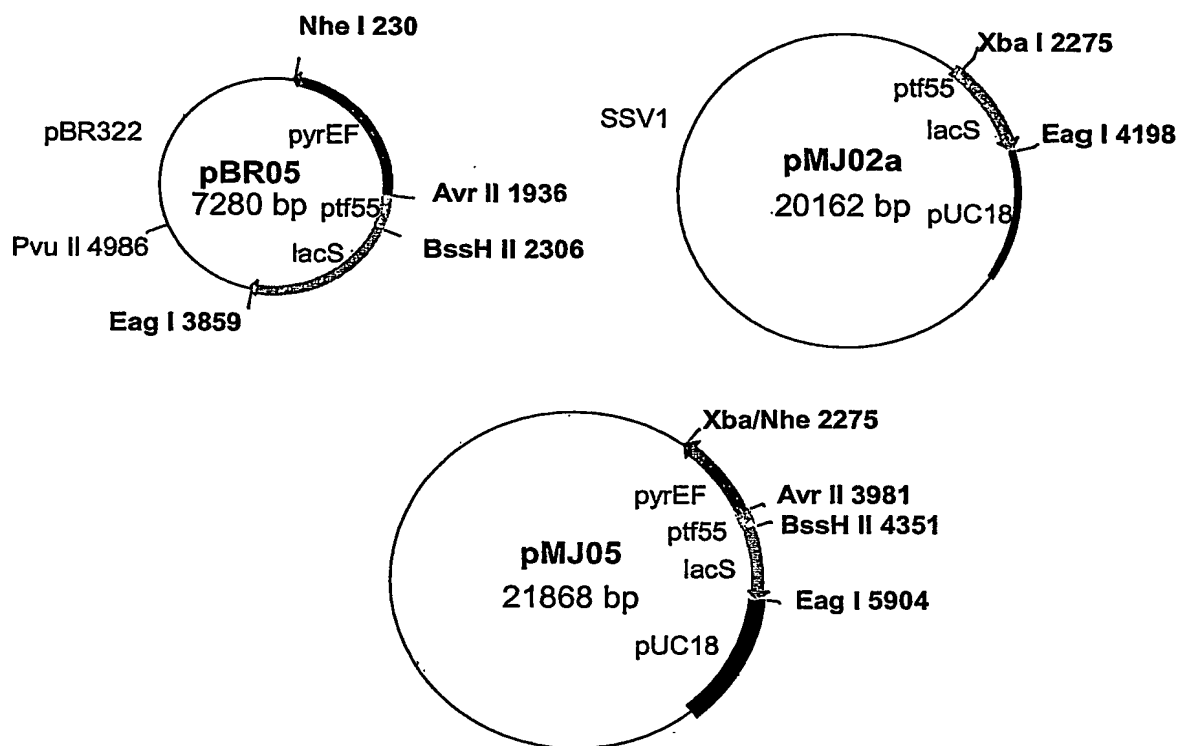


Figure 7b



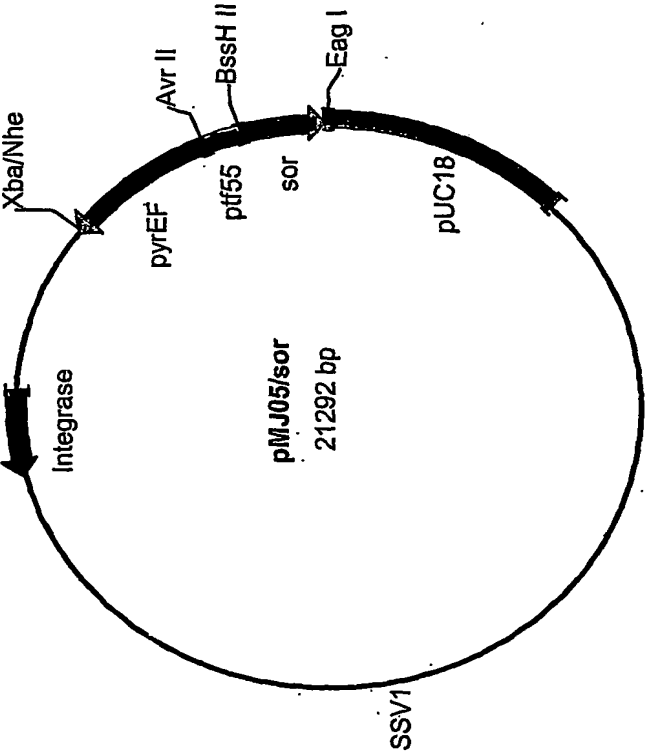
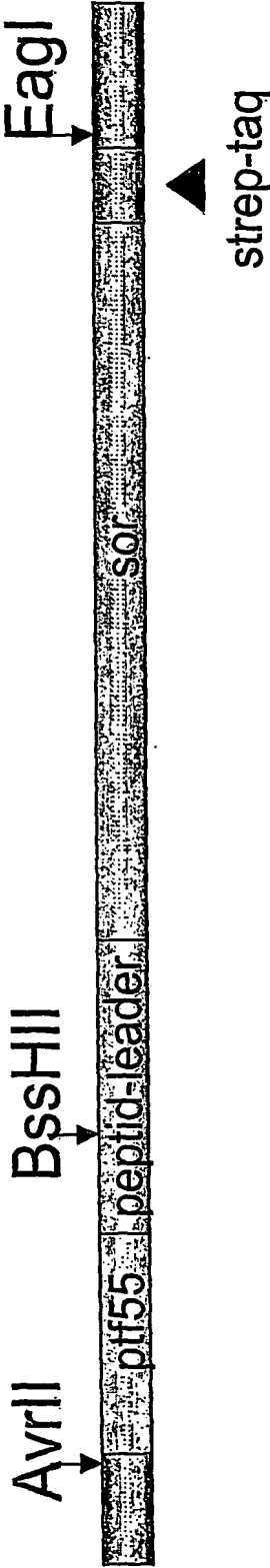
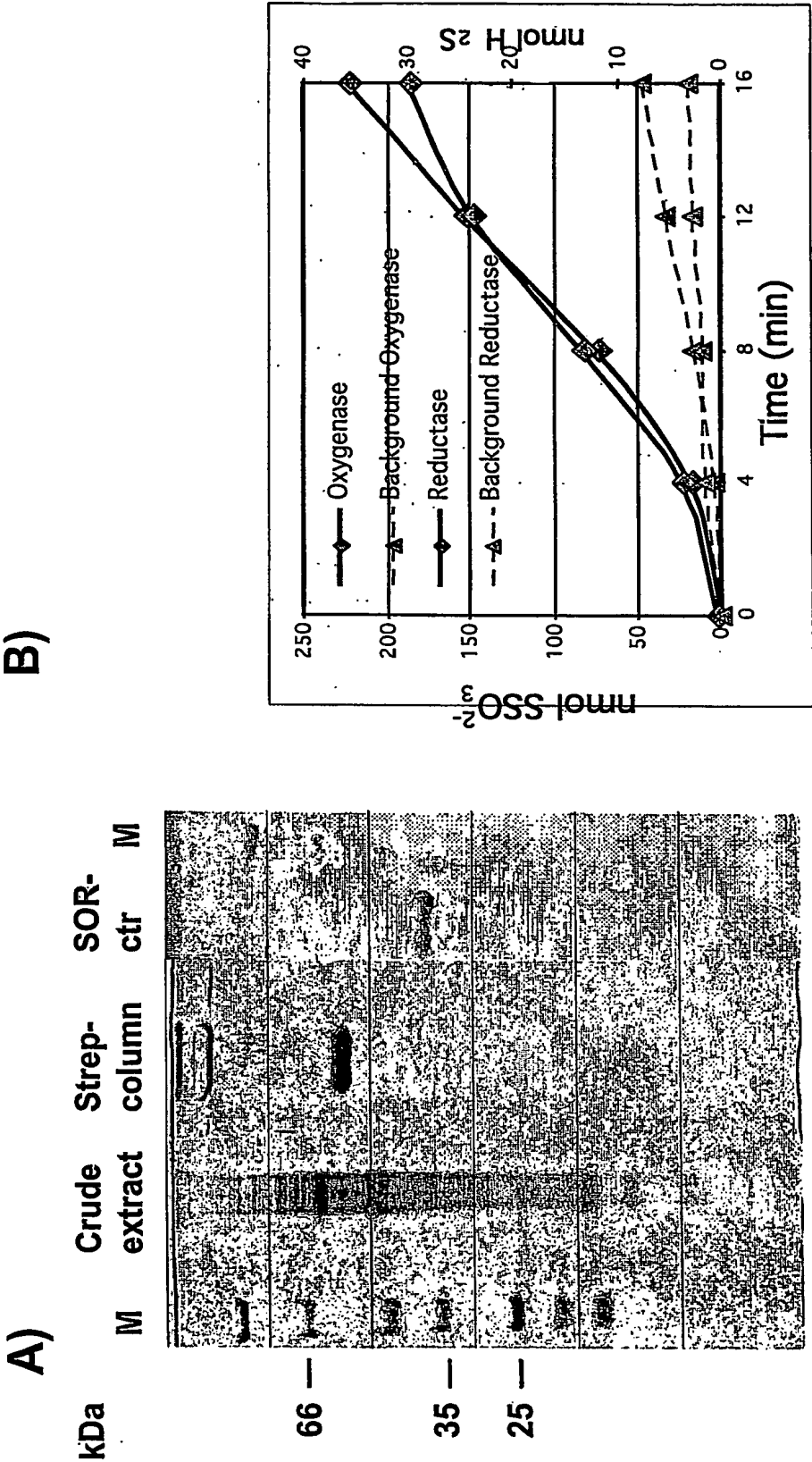


Fig. 8a:





**Fig 8b:** A) SDS-PAGE of sor purification  
B) Activity plot oxygenase/reductase



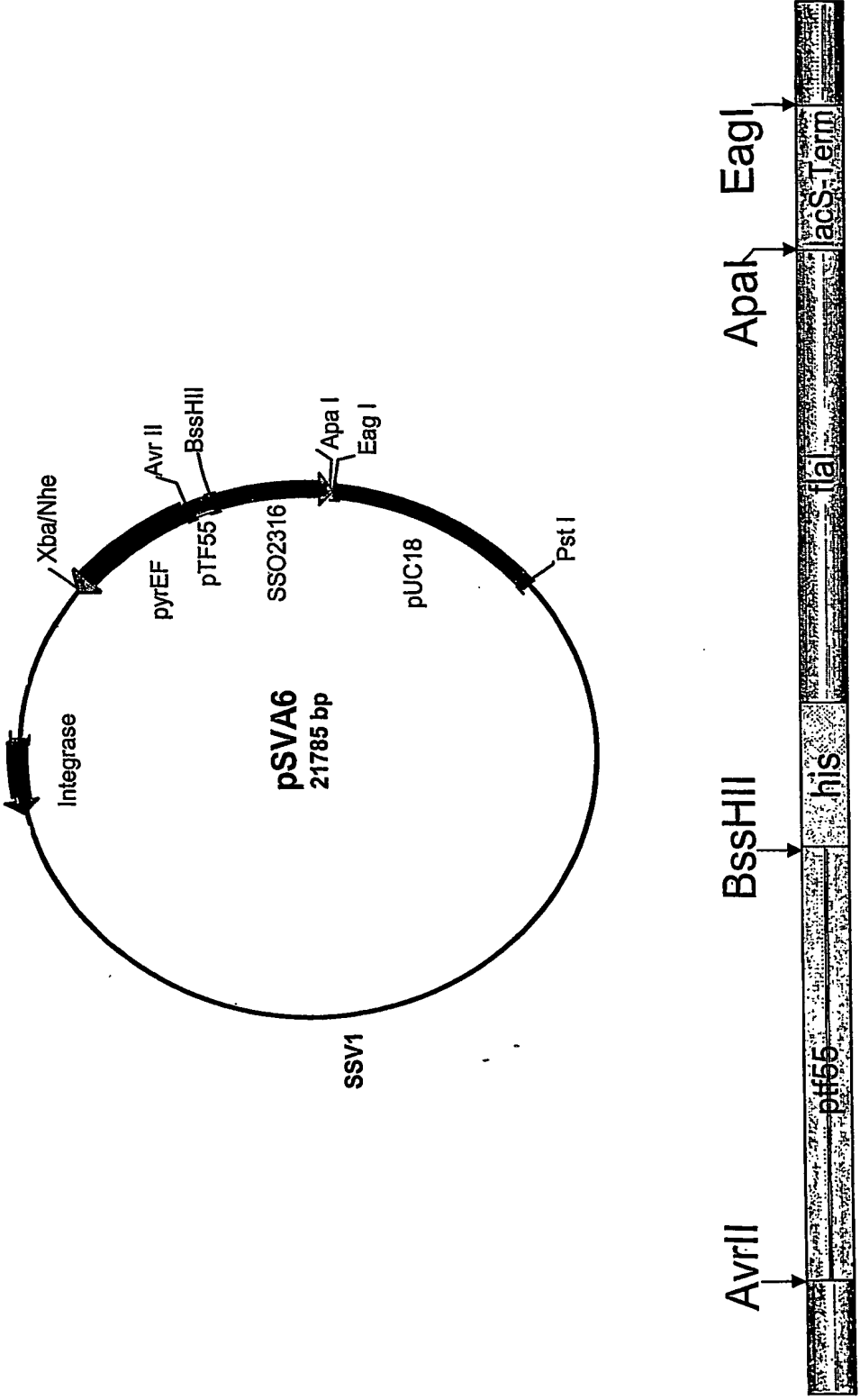


Fig. 9: E.coli / Sulfolobus shuttle vector pSVA6

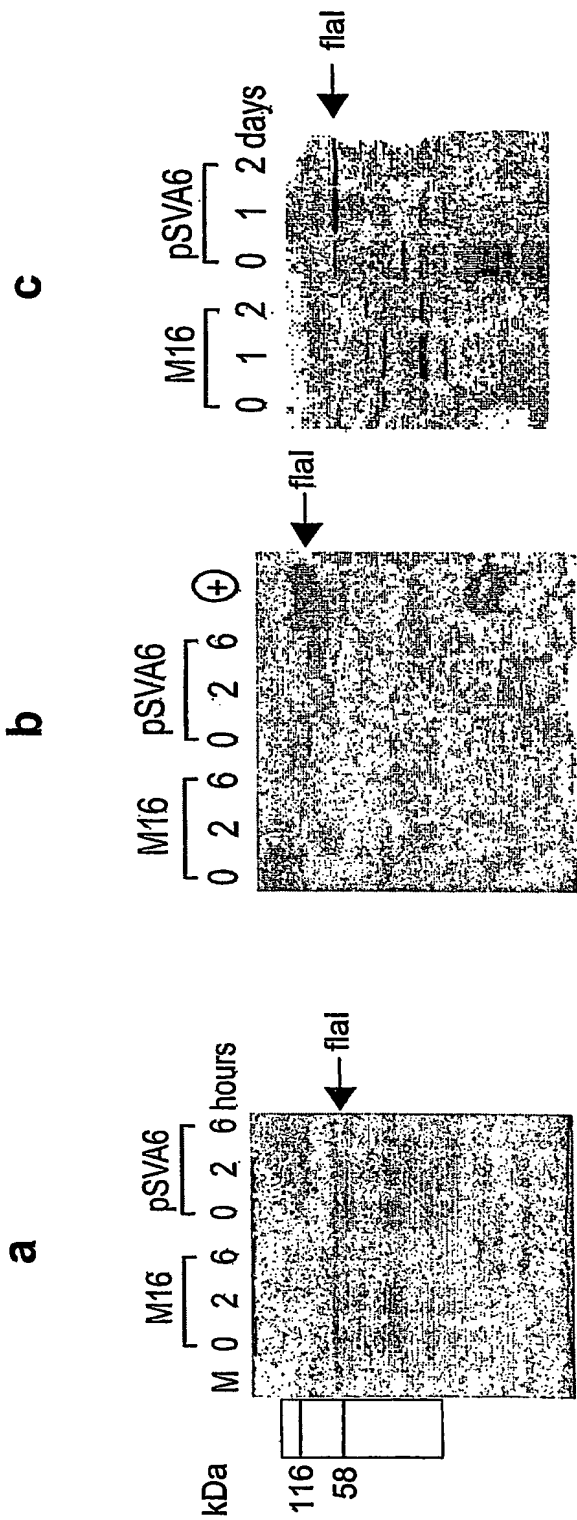


Fig. 10: Expression of flal and western blot analysis

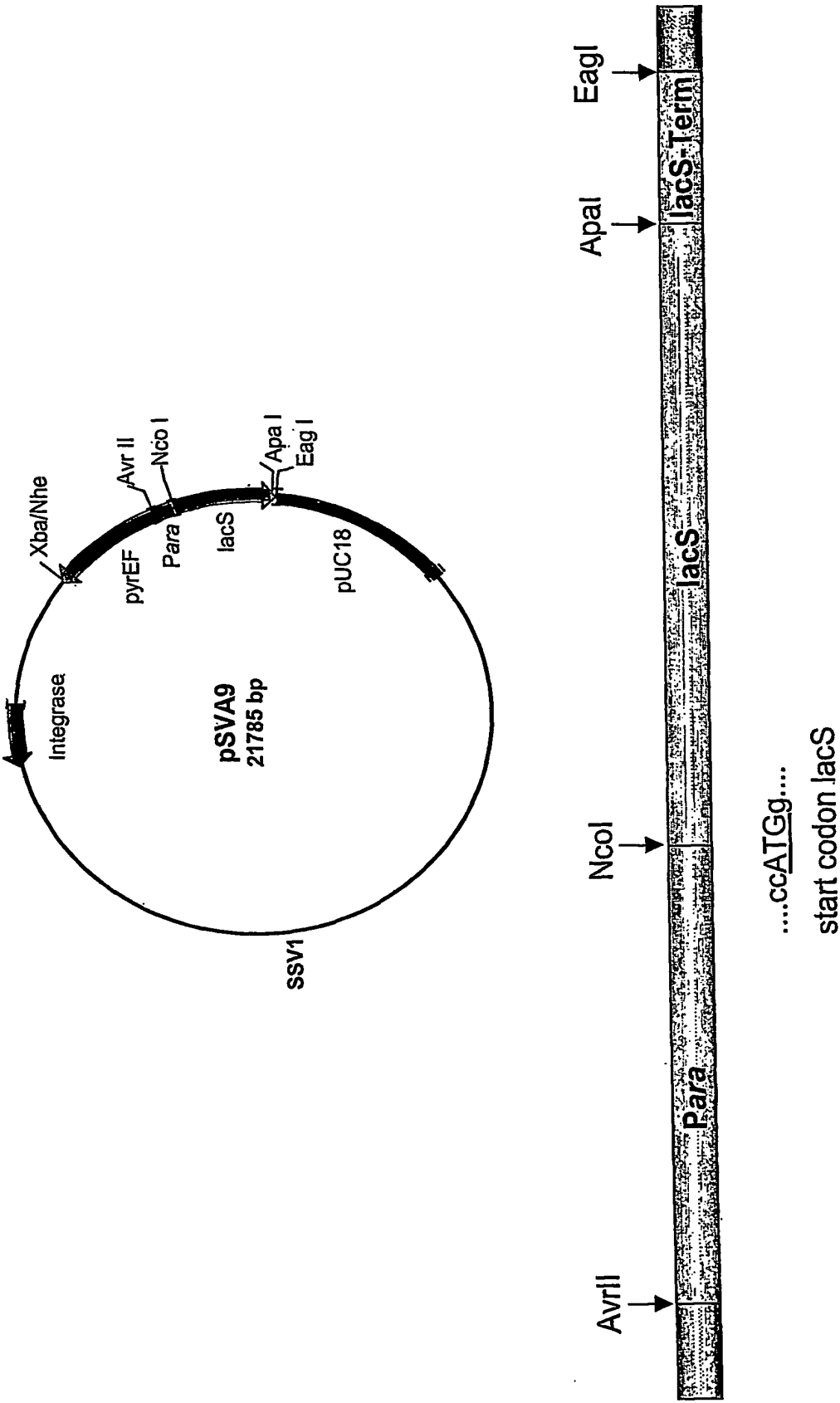


Fig. 11: Expression vector pSVA9 containing the *S. solfataricus* arabinose promoter

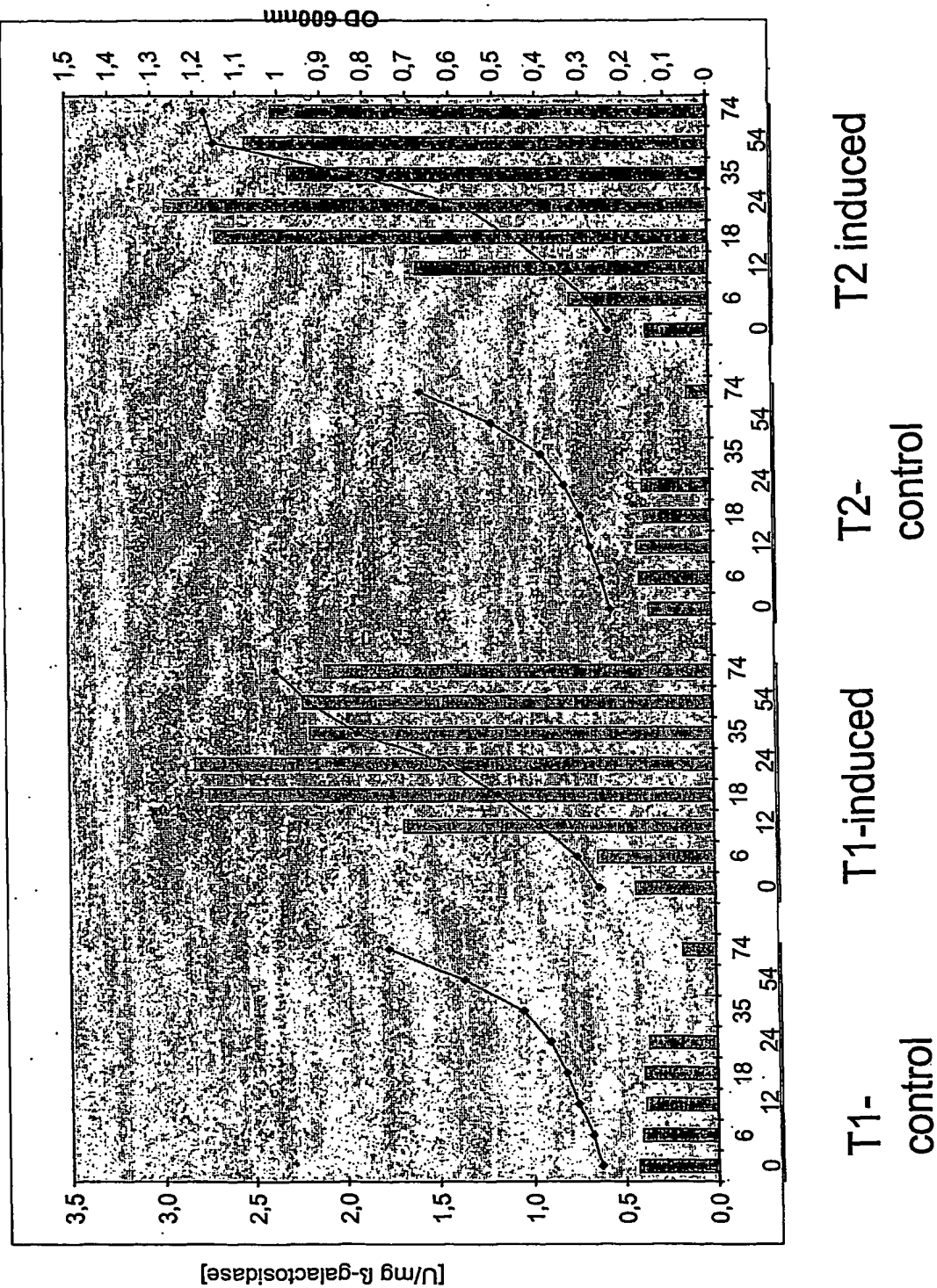
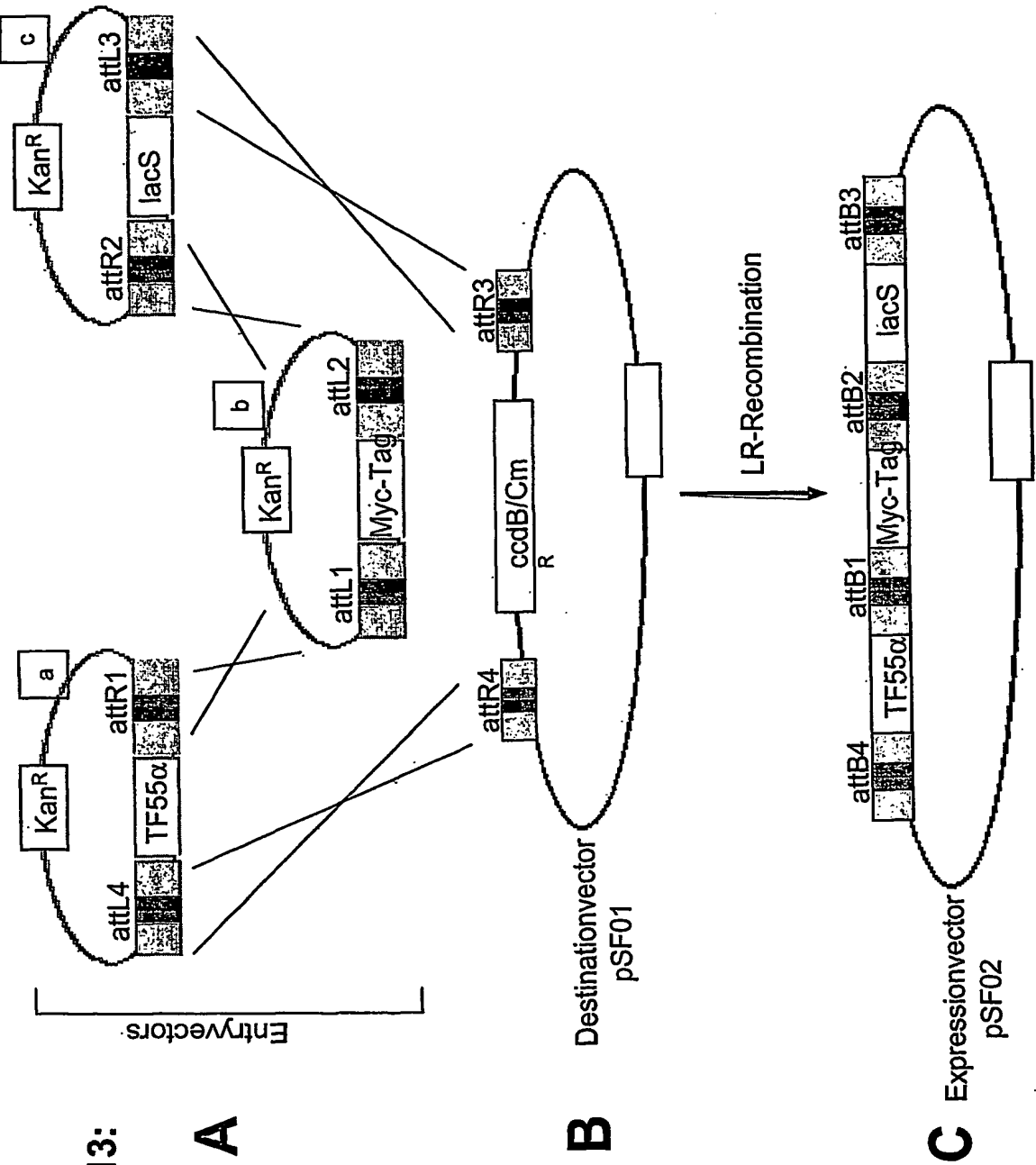


Fig. 12: Activity panel of pSVA9 transformants under induced and non-induced (control-) conditions



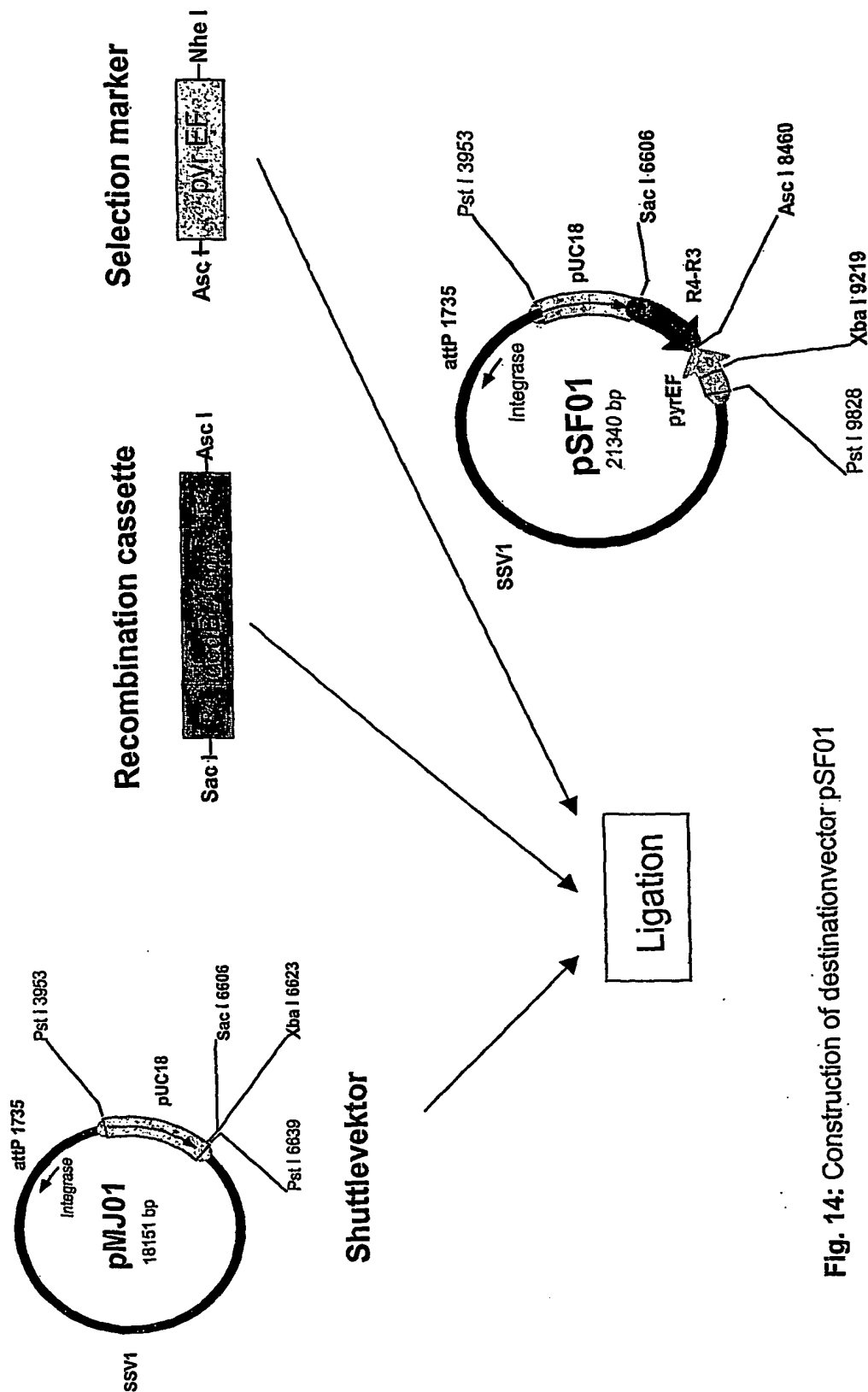
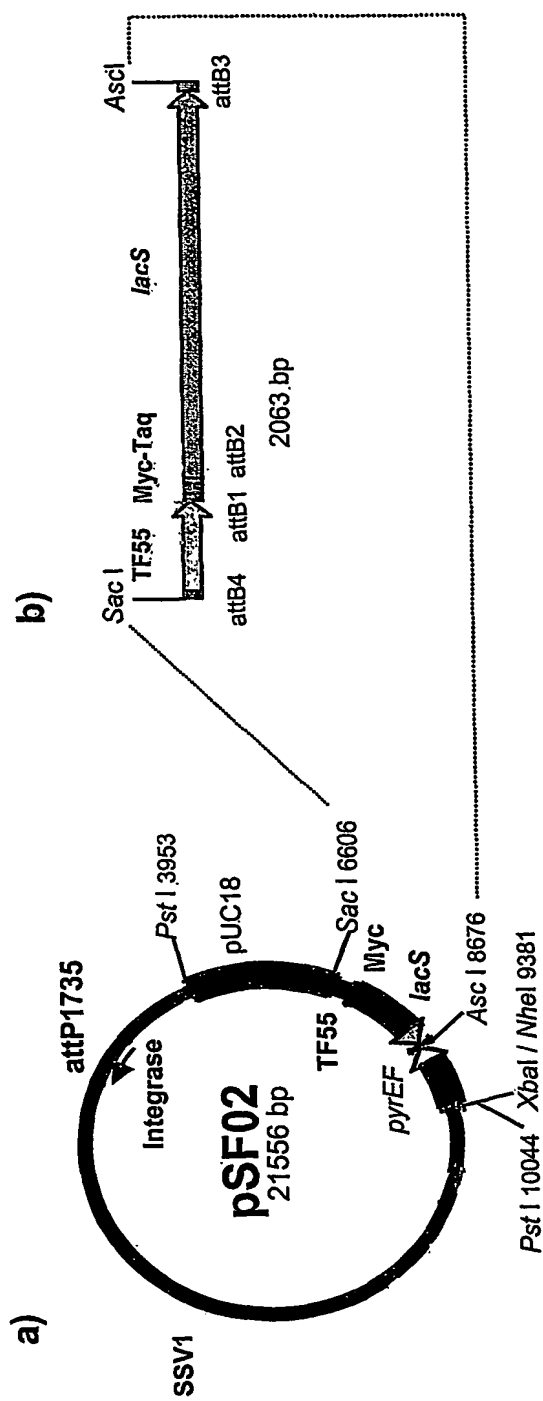
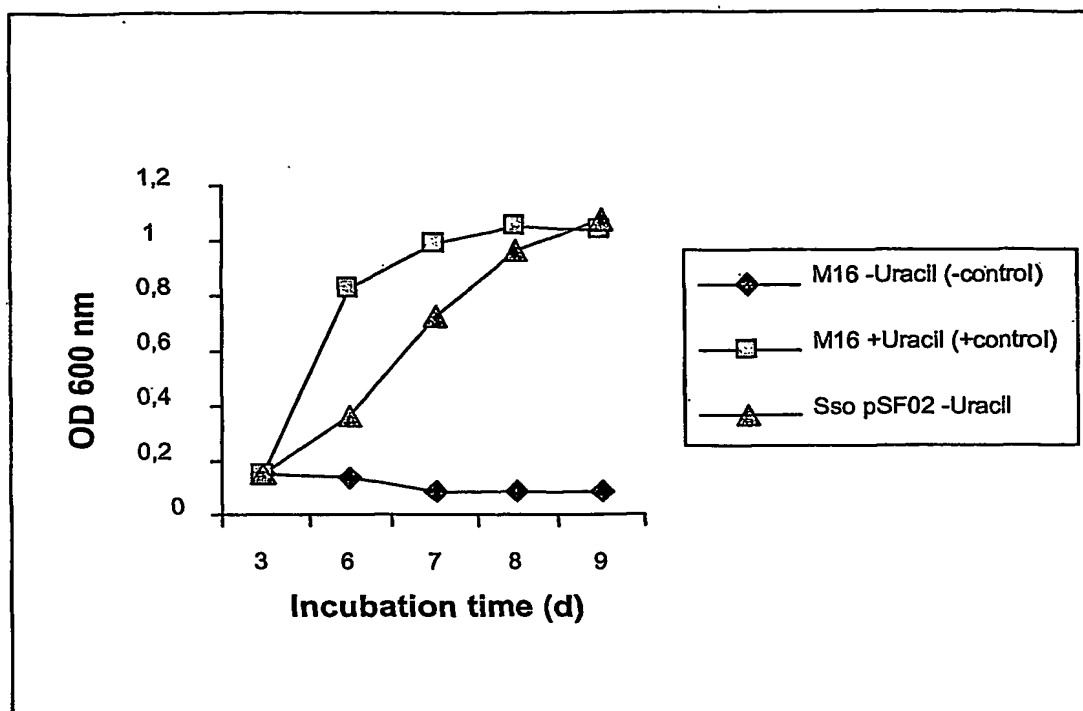


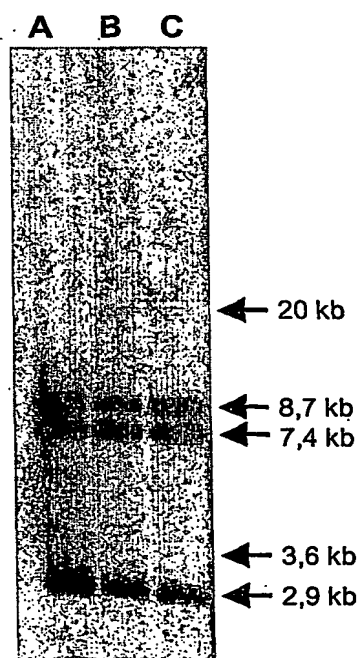
Fig. 14: Construction of destinationvector pSF01



**Fig. 15:** a) Expression-Shuttlevektor pSF02;  
b) detailed drawing of expressioncassette



**Fig. 16:** Growth curve of *Sulfolobus solfataricus* pSF02 in selection medium (- Uracil)



**Fig. 17:**  
Southern-Blot-analysis of *S. solfataricus* pSF02  
A) pSF02 control DNA  
B) *S. solfataricus* pSF02 clone 1 (total DNA)  
C) *S. solfataricus* pSF02 clone 2 (total DNA)